Rec'd PCT/PTO 06 MAY 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number
WO 2004/044460 A1

(51) International Patent Classification[7]: F16H 29/08, A01C 19/00

(21) International Application Number: PCT/IT2002/000716

(22) International Filing Date: 11 November 2002 (11.11.2002)

(25) Filing Language: Italian

(26) Publication Language: English

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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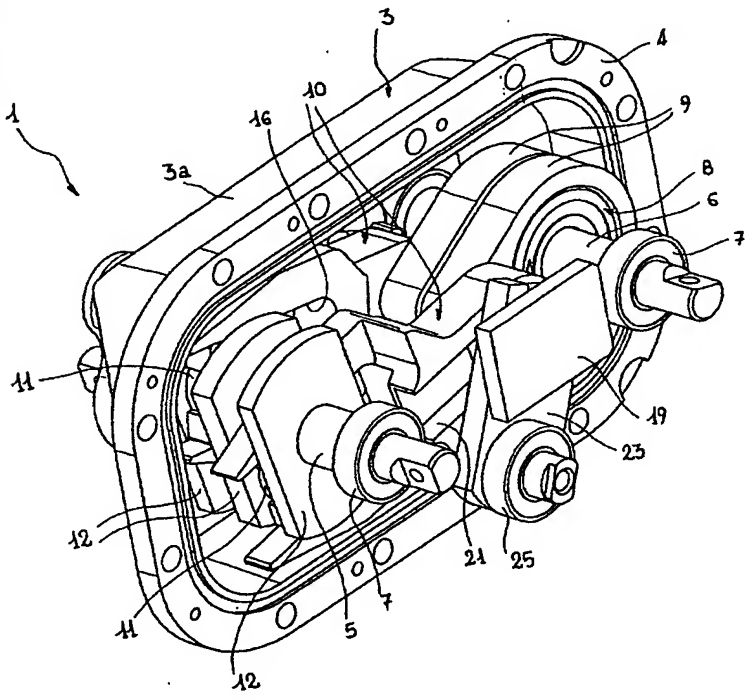
(54) Title: A GEARBOX, PARTICULARLY FOR TRANSMISSION SYSTEMS IN DEVICES FOR METERING GRANULAR MATERIALS



(57) Abstract: A gearbox, particularly for transmission systems in devices (2) for metering granular and/or materials in powder form, comprises a pair of shafts, that is, a drive-input shaft (5) and a drive-output shaft (6), respectively, there being provided on the output shaft (6) at least one pair of coaxial freewheels (8), on each of which an end of a respective linkage (10) carrying a movable fulcrum means is active. The opposite end of each linkage (10) is driven with a reciprocating oscillatory motion about the fulcrum means by means of an eccentric device provided on the drive-input shaft (5) in order to convert the reciprocating oscillatory motion into an intermittent rotary motion of each freewheel (8) and consequently to bring about a rotary motion of the drive-output shaft (6) in a preselected direction of rotation. The drive-input shaft (5) comprises at least one pair of cranks with eccentric pins (11) and each linkage (10) comprises a respective element (13) substantially similar to a connecting rod having a first end (13a) connected kinematically to the corresponding freewheel (8) and a second, opposite end (13b) articulated on the respective pin (11) of the crankshaft (5) with a capability for rotary/translation movement relative to the pin (11).

WO 2004/044460 A1

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv)) for US only*

Published:
— *with international search report*

(48) Date of publication of this corrected version:
3 March 2005

(15) Information about Correction:
see PCT Gazette No. 09/2005 of 3 March 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.